

1    **What Is Claimed Is**

2    1. A guide clamp including:

- 3       □ a body for installment on an object;
- 4       □ a rod movable along the body;
- 5       □ a stationary jaw secured to the body for contact with an edge
- 6           of the object;
- 7       □ a movable jaw assembly movable along the body, the movable
- 8           jaw assembly including:
- 9           ■ a movable jaw for contact with an opposite edge of the
- 10              object;
- 11          ■ a plurality of locking plates each including an upper portion
- 12              defining an aperture for receiving the rod and a lower
- 13              portion extending from the upper portion at an angle,
- 14              wherein the apertures are sized so that the locking plates
- 15              easily slide on the rod whenever the upper portions thereof
- 16              are normal to the rod but lock to the rod whenever the
- 17              upper portions thereof are tipped from the normal position
- 18              as the upper portions of the locking plates are moved by
- 19              means of the rod while the lower portions of the locking
- 20              plates are stopped by means of the movable jaw;
- 21          ■ a release carrier movable relative to the movable jaw ; and
- 22          ■ a spring compressed between the movable jaw and the
- 23              locking plates for returning the upper portions of the
- 24              locking plates to the normal position; and
- 25       □ a cam pivotally connected with the rod for contact with the
- 26           stationary jaw so that pivotal of the lever and the contact of the

- 1           cam with the stationary jaw cause movement of the rod along  
2           the body.
- 3   2. The guide clamp according to claim 1 further including a lever  
4       extending from the cam for easy rotation of the cam.
- 5   3. The guide clamp according to claim 1 wherein the movable jaw  
6       includes a first end, a second end, a bottom, a top, two walls and a  
7       recess defined in the top, and the release carrier includes a connector  
8       extending through the recess of the movable jaw and including an  
9       enlarged end for abutting the movable jaw the release carrier.
- 10  4. The guide clamp according to claim 1 further including an end cap  
11       secured to the body for keeping the movable jaw assembly to the  
12       body.
- 13  5. The guide clamp according to claim 1 wherein the body includes  
14       two individual members that are connected with each other.
- 15  6. The guide clamp according to claim 5 further including a connecting  
16       device for connecting the individual members of the body with each  
17       other.
- 18  7. The guide clamp according to claim 6 wherein each of the  
19       individual members of the body defines a dovetail groove, and the  
20       locking device includes a dovetail including two sections each  
21       inserted in the dovetail groove of one of the bodies and two screw  
22       each driven into each of the bodies through one of the sections of  
23       the dovetail.
- 24  8. The guide clamp according to claim 7 wherein each of the sections  
25       of the dovetail defines an aperture through which one of the screws  
26       is driven.

- 1 9. A guide clamp set including two guide clamps according to claim 1.
- 2 10. The guide clamp set according to claim 9 including a connecting
- 3 device for connecting the guide clamps with each other.
- 4 11. The guide clamp set according to claim 10 wherein the body of each
- 5 of the guide clamps defines a groove, and the connecting device
- 6 includes:
- 7     □ a connecting plate including two claws put in the groove of the
- 8 body of each of the guide clamps;
- 9     □ a washer; and
- 10     □ a screw driven into the connecting plate through the washer.
- 11 12. The guide clamp set according to claim 11 wherein the connecting
- 12 plate defines an aperture for receiving the screw.
- 13 13. A guide clamp including:
- 14     □ a body including a first face for contact with an object and a
- 15 second face defining a groove including an open end for
- 16 receiving a fastening element, a bottom and a reduced top for
- 17 trapping the fastening element;
- 18     □ a stationary jaw secured to the body for contact with an edge of
- 19 the object;
- 20     □ a movable jaw assembly movable along the body, the movable
- 21 jaw assembly including:
- 22         ■ a movable jaw for contact with an opposite edge of the
- 23 object;
- 24         ■ a plurality of locking plates each including an upper portion
- 25 defining an aperture for receiving the rod and a lower
- 26 portion extending from the upper portion at an angle,

1            wherein the apertures are sized so that the locking plates  
2            easily slide on the rod whenever the upper portions thereof  
3            are normal to the rod but lock to the rod whenever the  
4            upper portions thereof are tipped from the normal position  
5            as the upper portions of the locking plates are moved by  
6            means of the rod while the lower portions of the locking  
7            plates are stopped by means of the movable jaw; and

8            ■ a release carrier movable relative to the movable jaw; and  
9            □ a cam pivotally connected with the rod for contact with the  
10           stationary jaw so that pivotal of the lever and the contact of the  
11           cam with the stationary jaw cause movement of the rod along  
12           the body.

13   14. The guide clamp according to claim 13 wherein the body includes  
14       two individual members that are connected with each other.

15   15. The guide clamp according to claim 14 further including a  
16       connecting device for connecting the individual members of the  
17       body with each other.

18   16. The guide clamp according to claim 15 wherein the groove of each  
19       of the individual members of the body is a dovetail groove, and the  
20       locking device includes a dovetail including two sections each  
21       inserted in the dovetail groove of one of the bodies and two screw  
22       each driven into each of the bodies through one of the sections of  
23       the dovetail.

24   17. The guide clamp according to claim 16 wherein each of the sections  
25       of the dovetail defines an aperture through which one of the screws  
26       is driven.

- 1 18. A guide clamp set including two guide clamps according to claim  
2 13.
- 3 19. The guide clamp set according to claim 18 including a connecting  
4 device for connecting the guide clamps with each other.
- 5 20. The guide clamp set according to claim 19 wherein the body of each  
6 of the guide clamps defines a groove, and the connecting device  
7 includes:
- 8     □ a connecting plate including two claws put in the groove of the  
9       body of each of the guide clamps;
- 10    □ a washer; and
- 11    □ a screw driven into the connecting plate through the washer.
- 12
- 13